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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/883,278	06/19/2001	Koji Sakai	1248-0544P-SP	9443	
2292	7590 03/24/2006		EXAM	EXAMINER	
	WART KOLASCH & BI	HO, DU	HO, DUC CHI		
PO BOX 747 FALLS CHU	RCH, VA 22040-0747		ART UNIT	PAPER NUMBER	
			2616		
			DATE MAILED: 03/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

				38			
		Application No.	Applicant(s)	i)			
Office Action Summary		09/883,278	SAKAI ET AL.	•			
		Examiner	Art Unit				
		Duc C. Ho	2616				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address	s			
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be form will apply and will expire SIX (6) MONTHS fro, cause the application to become ABANDON	ON. timely filed on the mailing date of this commun IED (35 U.S.C. § 133).				
Status							
1)[🛛	Responsive to communication(s) filed on 18 Ja	nuary 2006.					
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.	•			
Dispositi	on of Claims						
4)⊠	Claim(s) 1-21 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	<u> </u>						
6)⊠	☑ Claim(s) <u>1-18</u> is/are rejected.						
7)	Claim(s) is/are objected to.	•					
8)[Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers		•				
	The specification is objected to by the Examine	,					
	The drawing(s) filed on is/are: a)☐ acce		Evaminer				
. • , 🗀	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the correcti	· ·	• • • • • • • • • • • • • • • • • • • •	121(d).			
11)	The oath or declaration is objected to by the Ex		•	. ,			
	ınder 35 U.S.C. § 119						
	_	neiosituundos 25 11 C.O. C 440/					
_	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
۵٫۱	1. Certified copies of the priority documents have been received.						
	2. ☐ Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior		· · · · · · · · · · · · · · · · · · ·	e			
	application from the International Bureau		ou uno manonal otag				
* S	ee the attached detailed Office action for a list of	` '/	ed.				
Attachment	(s)						
_	e of References Cited (PTO-892)	4) Interview Summar	v (PTO-413)				
2) 🔲 Notice	of Draftsperson's Patent Drawing Review (PTO-948)	_ Paper No(s)/Mail D	Date				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1, 15, and 18 are rejected under 35 U.S.C. 101.

Claim 1 is rejected under 35 U.S.C. 101 because the recitation "when the information waveform signal consecutively repeats a single pattern, a different pattern is inserted between the same patterns before transmitting the single patterns" in lines 4-5 per se, does not appear to be a process, machine, manufacture, or composition of matter. Further, the claimed invention is directed to non-statutory subject matter by claiming "signal" claim. The same remark applies to claims 15, and 18.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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4. Claims 1-8, 12 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Gulick et al. (US 5,048,012), hereinafter referred to as Gulick.

Regarding claim 1, Gulick discloses data link controller with flexible multiplexer. When the information waveform signal consecutively repeats a single pattern (the link provided by DLC 52-fig. 2 is said to be idle when frames are not being transmitted. In other words, the link may be said to be occupied by an idling waveform or repeating an idling waveform, see col. 7, lines 52-62, fig. 2-3), a different pattern is inserted between the same patterns before transmitting the single patterns (when the link is idle, the DLC transmitter 102-fig. 3 can be programmed by microprocessor 18-fig.3 to send an all ONEs pattern, which is referred to as Mark Idle(MI) for transmission of the idle status).

Regarding claim 2, the Data link controllers (DLCs) are used in integrated services digital networks (ISDNs) to provide a high-speed 192 kilo-bit per second (KBPS) serial interface to a telecommunications network.

Regarding claim 3, the microprocessor 18-fig.3 can be programmed to send the MI at random interval.

Regarding claim 4, the microprocessor 18-fig.3 can be programmed to send the MI at fixed interval.

Regarding claim 5, the microprocessor 18-fig.3 could select another idling pattern, i.e. Flag Idle (FI), see col. 7, lines 52-62.

Regarding claim 6, the MI pattern is considered as a code indicative of an idling state on the link.

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Regarding claim 7, the FI pattern is a code different from the MI code representing the idling status.

Regarding claim 8, the MI pattern is considered as a code indicative of an idling state on the link.

Regarding claim 12, when the link is inherently occupied by an idling waveform, the MI pattern, inherently obtained the same transmission timing as that of an idling waveform representing the idling information, is used for transmission on that link, see col. 7, lines 52-62, fig. 2-3.

Regarding claim 14, the system of Gulick is capable of utilizing an optical signal.

Regarding claim 18, this claim has similar limitations as claim 1. Therefore, it is rejected under Gulick for the same reasons set forth in the rejection of claim 1.

Allowable Subject Matter

- 5. Claims 19-21 are allowed.
- 6. Claim 15 is rejected but would be allowable if rewritten to overcome the 35 U.S.C. 101 rejections as set forth above.
- 7. Claims 9-11, and 13 are objected to as being independent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and if the base claim has overcome the 35 U.S.C. 101 rejection as set forth above.
- 8. Claims 16-17 13 are objected to as being independent upon a rejected base claim, but would be allowable if the base claim has overcome the 35 U.S.C. 101 rejection as set forth above.

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Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

Duć Ho

03-21-06